



Electronic Filing System (EFS) Data
Electronic Patent Application Submission
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EFS ID: 50734

Application ID: 10633186



Title of Invention:

**IMAGE ENHANCEMENT AND
SEGMENTATION OF STRUCTURES
IN 3D ULTRASOUND IMAGES FOR
VOLUME MEASUREMENTS**

First Named Inventor: Vikram Chalana

Domestic/Foreign Application: Domestic Application

Filing Date: 2003-11-17

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Submission Type: Information Disclosure
Statement

Filing Type:

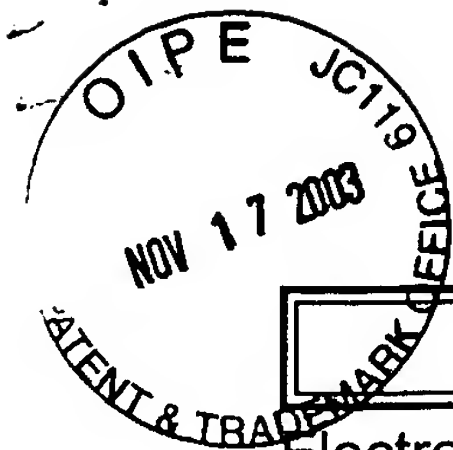
Confirmation number: 3176

Attorney Docket Number: DXUC-1-1021

Total Fees Authorized:

Digital Certificate Holder: cn=Richard Thomas Black,ou=Registered Attorneys,ou=Patent and
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US

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TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

| Title of Invention | IMAGE ENHANCEMENT AND SEGMENTATION OF STRUCTURES IN 3D ULTRASOUND IMAGES FOR VOLUME MEASUREMENTS | | | | | | | | | |
|--|---|----------------|----------------------------------|--------------|----------------|--|-----|------------|--|------------|
| Application Number: 10/633186 Date: 2003-11-17 First Named Applicant: Vikram Chalana Confirmation Number: 3176 Attorney Docket Number: DXUC-1-1021 | | | | | | | | | | |
| <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> | | | | | | | | | | |
| <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Richard T. Black Registered Number: 40514</td><td>/s/</td><td>Attorney</td></tr></tbody></table> | | | Submitted by: | Elec. Sign. | Sign. Capacity | Richard T. Black Registered Number: 40514 | /s/ | Attorney | | |
| Submitted by: | Elec. Sign. | Sign. Capacity | | | | | | | | |
| Richard T. Black Registered Number: 40514 | /s/ | Attorney | | | | | | | | |
| <table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>DXUC-1-1021IDS-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table> | | | Documents being submitted | Files | us-ids | DXUC-1-1021IDS-usidst.xml | | us-ids.dtd | | us-ids.xsl |
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| us-ids | DXUC-1-1021IDS-usidst.xml | | | | | | | | | |
| | us-ids.dtd | | | | | | | | | |
| | us-ids.xsl | | | | | | | | | |
| Comments | | | | | | | | | | |



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

| Title of Invention | IMAGE ENHANCEMENT AND SEGMENTATION OF STRUCTURES IN 3D ULTRASOUND IMAGES FOR VOLUME MEASUREMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Application Number: 10/633186 Confirmation Number: 3176 First Named Applicant: Vikram Chalana Attorney Docket Number: DXUC-1-1021 Search string: (6375616 or 6346124 or 6213949 or 5664513 or 5605155 or 5588435 or 5235985).pn. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| US Patent Documents | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note: Applicant is not required to submit a paper copy of cited US Patent Documents | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr><tr><td></td><td>1</td><td>6375616</td><td>2002-04-23</td><td>Soferman et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>6346124</td><td>2002-02-12</td><td>Geiser et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>6213949</td><td>2001-04-10</td><td>Ganguly et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>5664513</td><td>1997-07-01</td><td>Rudin et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>5605155</td><td>1997-02-25</td><td>Chalana et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5588435</td><td>1996-12-31</td><td>Weng et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>5235985</td><td>1993-08-17</td><td>McMorrow et al.</td><td></td><td></td><td></td></tr></table> | | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass | | 1 | 6375616 | 2002-04-23 | Soferman et al. | | | | | 2 | 6346124 | 2002-02-12 | Geiser et al. | | | | | 3 | 6213949 | 2001-04-10 | Ganguly et al. | | | | | 4 | 5664513 | 1997-07-01 | Rudin et al. | | | | | 5 | 5605155 | 1997-02-25 | Chalana et al. | | | | | 6 | 5588435 | 1996-12-31 | Weng et al. | | | | | 7 | 5235985 | 1993-08-17 | McMorrow et al. | | | |
| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 6375616 | 2002-04-23 | Soferman et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 6346124 | 2002-02-12 | Geiser et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 6213949 | 2001-04-10 | Ganguly et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 5664513 | 1997-07-01 | Rudin et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 5605155 | 1997-02-25 | Chalana et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 5588435 | 1996-12-31 | Weng et al. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Signature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td>Examiner Name</td><td>Date</td></tr><tr><td></td><td></td></tr></table> | | Examiner Name | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Examiner Name | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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